

Appl.No.: 09/659,431  
Amendment dated February 3, 2004  
Response to Office Action mailed November 3, 2003

#### REMARKS/ARGUMENTS

Claims 1-9 are pending in the application with claims 1-2 rejected.

Reexamination and reconsideration are hereby requested.

Claims 1-2 were rejected as anticipated by either Golden or Brunner.

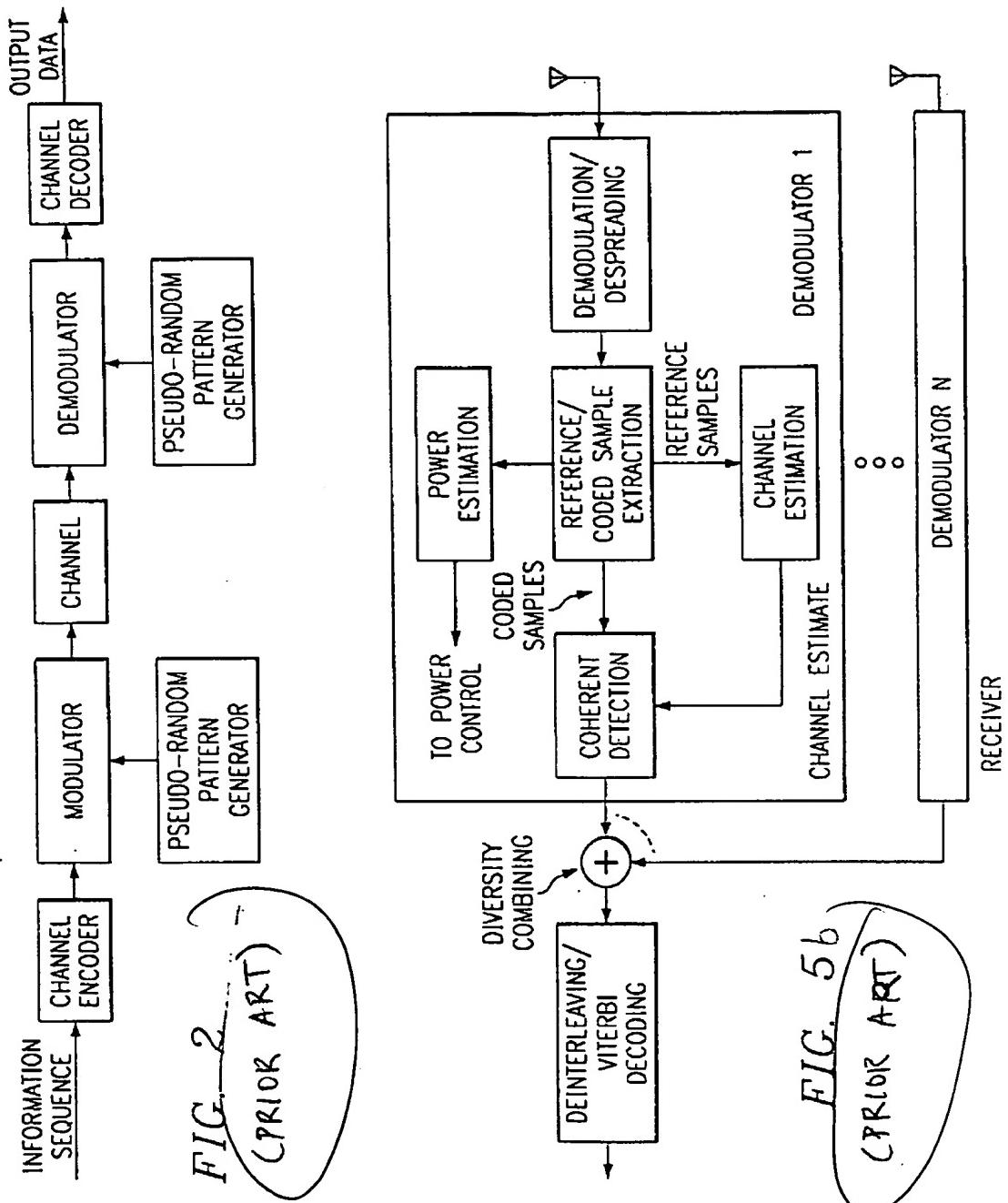
Applicants reply that independent claim 1 has been amended to make clear that a single receiver antenna receives the multipaths. In contrast, both Golden and Brunner seem to be multiple antenna approaches: see Golden, column 4, lines 49-63 and Brunner page 2387, left column (M antenna elements). Further, the covariance matrices of Brunner,  $R_{SIN}$  and  $R_{IN}$ , are noted (page 2384, right column) as "space-frequency" covariances by use of the discrete Fourier transform (DFT).

Proposed amendments to add "Prior Art" to Figs.2-5b are indicated in the Appendix in red.

Respectfully submitted,



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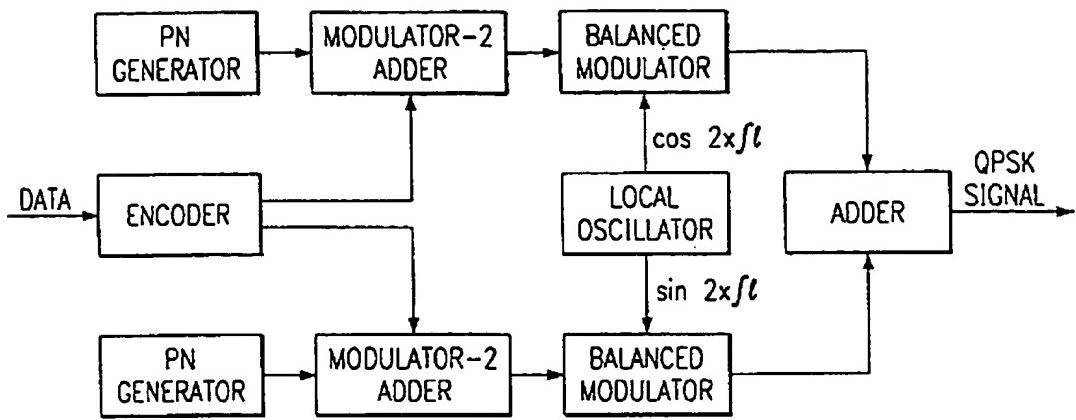
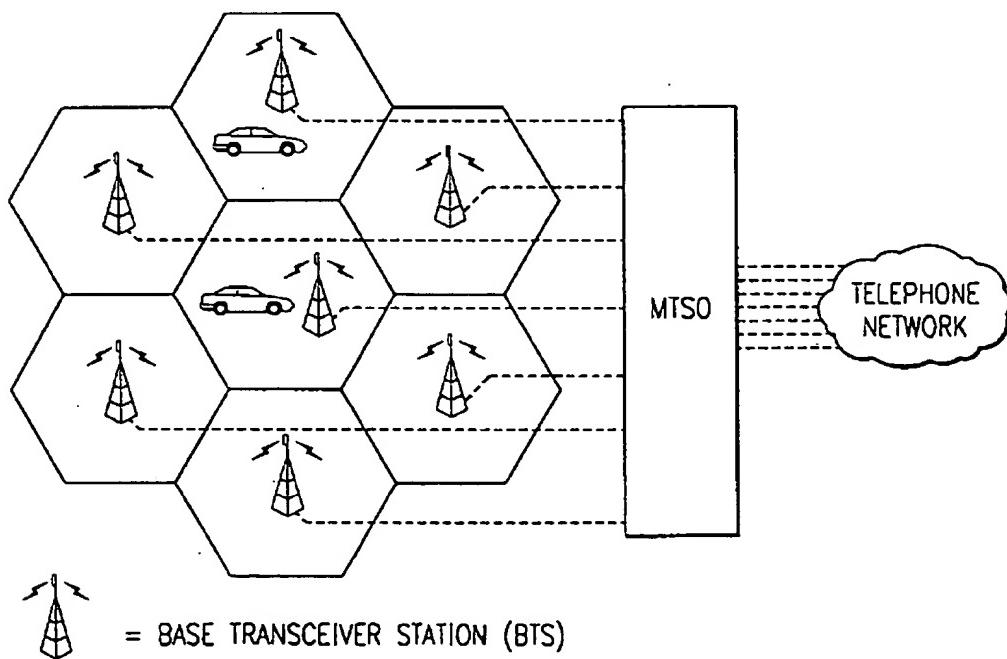


FIG. 3

(PRIOR ART)



= BASE TRANSCEIVER STATION (BTS)

MTSO = MOBILE TELEPHONE SWITCHING OFFICE

= MOBILE UNIT (MOBILE STATION)

----- = DEDICATED LINES

FIG. 4

(PRIOR ART)

*Approved  
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